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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/775,805

DATE: 08/14/2002

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Output Set: N:\CRF3\08142002\I775805.raw

AUG 28 2002

TECH CENTER 1600/2900

3 <110> APPLICANT: DUKE UNIVERSITY
5 <120> TITLE OF INVENTION: HUMAN IMMUNODEFICIENCY VIRUS VACCINE
7 <130> FILE REFERENCE: 1579-548
9 <140> CURRENT APPLICATION NUMBER: 09/775,805
10 <141> CURRENT FILING DATE: 2001-02-05
12 <150> PRIOR APPLICATION NUMBER: 09/497,497
13 <151> PRIOR FILING DATE: 2000-02-04
15 <160> NUMBER OF SEQ ID NOS: 107
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 10
21 <212> TYPE: PRT
22 <213> ORGANISM: Human immunodeficiency virus
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26 1 5 10
29 <210> SEQ ID NO: 2
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31 <212> TYPE: PRT
32 <213> ORGANISM: Human immunodeficiency virus
34 <400> SEQUENCE: 2
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40 <211> LENGTH: 12
41 <212> TYPE: PRT
42 <213> ORGANISM: Human immunodeficiency virus
44 <400> SEQUENCE: 3
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46 1 5 10
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50 <211> LENGTH: 12
51 <212> TYPE: PRT
52 <213> ORGANISM: Human immunodeficiency virus
54 <400> SEQUENCE: 4
55 Thr Gln Gly Tyr Phe Pro Gln Trp Gln Asn Tyr Thr
56 1 5 10
59 <210> SEQ ID NO: 5
60 <211> LENGTH: 9
61 <212> TYPE: PRT
62 <213> ORGANISM: Human immunodeficiency virus
64 <400> SEQUENCE: 5
65 Ser Phe Asn Cys Gly Gly Glu Phe Phe

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71 <212> TYPE: PRT
72 <213> ORGANISM: Human immunodeficiency virus
74 <400> SEQUENCE: 6
75 Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile
76      1              5              10
79 <210> SEQ ID NO: 7
80 <211> LENGTH: 13
81 <212> TYPE: PRT
82 <213> ORGANISM: Human immunodeficiency virus
84 <400> SEQUENCE: 7
85 Asn Tyr Thr Pro Gly Pro Gly Val Arg Tyr Pro Leu Thr
86      1              5              10
89 <210> SEQ ID NO: 8
90 <211> LENGTH: 16
91 <212> TYPE: PRT
92 <213> ORGANISM: Human immunodeficiency virus
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96      1              5              10              15
99 <210> SEQ ID NO: 9
100 <211> LENGTH: 7
101 <212> TYPE: PRT
102 <213> ORGANISM: Human immunodeficiency virus
104 <400> SEQUENCE: 9
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106      1              5
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110 <211> LENGTH: 25
111 <212> TYPE: PRT
112 <213> ORGANISM: Human immunodeficiency virus
114 <400> SEQUENCE: 10
115 Tyr Phe Pro Asp Trp Gln Asn Tyr Thr Pro Gly Pro Gly Ile Arg Tyr
116      1              5              10              15
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119              20              25
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123 <211> LENGTH: 11
124 <212> TYPE: PRT
125 <213> ORGANISM: Human immunodeficiency virus
127 <400> SEQUENCE: 11
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133 <211> LENGTH: 9
134 <212> TYPE: PRT
135 <213> ORGANISM: Human immunodeficiency virus

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138 Gln Val Leu Arg Pro Met Thr Tyr Lys
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144 <212> TYPE: PRT
145 <213> ORGANISM: Human immunodeficiency virus
147 <400> SEQUENCE: 13
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149   1                               5                               10           15
151 Pro Leu Thr Phe Cys Gly Trp Cys Tyr Lys
152           20                               25
155 <210> SEQ ID NO: 14
156 <211> LENGTH: 31
157 <212> TYPE: PRT
158 <213> ORGANISM: Murine sp.
160 <400> SEQUENCE: 14
161 His Ala Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Lys
162   1                               5                               10           15
164 Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
165           20                               25           30
168 <210> SEQ ID NO: 15
169 <211> LENGTH: 26
170 <212> TYPE: PRT
171 <213> ORGANISM: Murine sp.
173 <400> SEQUENCE: 15
174 Lys Glu Lys Val Tyr Leu Ala Trp Val Pro Ala His Lys Gly Ile Gly
175   1                               5                               10           15
177 Met Tyr Ala Pro Pro Ile Gly Gly Gln Ile
178           20                               25
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182 <211> LENGTH: 30
183 <212> TYPE: PRT
184 <213> ORGANISM: Murine sp.
186 <400> SEQUENCE: 16
187 Gln Leu Leu Phe Ile His Phe Arg Ile Gly Cys Arg His Ser Arg Asp
188   1                               5                               10           15
190 Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg
191           20                               25           30
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195 <211> LENGTH: 30
196 <212> TYPE: PRT
197 <213> ORGANISM: Murine sp.
199 <400> SEQUENCE: 17
200 Glu Gln Met His Glu Asp Ile Ile Ser Leu Trp Asp Gln Ser Leu Arg
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203 Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys Asn
204           20                               25           30
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208 <211> LENGTH: 29
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216 Pro Thr Lys Ala Cys Thr Pro Tyr Asp Ile Asn Gln Met
217           20           25
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221 <211> LENGTH: 28
222 <212> TYPE: PRT
223 <213> ORGANISM: Macaque sp.
225 <400> SEQUENCE: 19
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227   1           5           10           15
229 Gln Leu Leu Leu Ser Thr Pro Pro Leu Val Arg Leu
230           20           25
233 <210> SEQ ID NO: 20
234 <211> LENGTH: 29
235 <212> TYPE: PRT
236 <213> ORGANISM: Macaque sp.
238 <400> SEQUENCE: 20
239 Ser Thr Ser Ile Arg Gly Lys Val Gln Lys Glu Tyr Ala Phe Phe Tyr
240   1           5           10           15
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243           20           25
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247 <211> LENGTH: 30
248 <212> TYPE: PRT
249 <213> ORGANISM: Macaque sp.
251 <400> SEQUENCE: 21
252 Val Ser Thr Val Gln Cys Thr His Gly Ile Arg Pro Val Val Ser Thr
253   1           5           10           15
255 Gln Leu Leu Leu Cys Thr Pro Tyr Asp Tyr Asn Gln Met Leu
256           20           25           30
259 <210> SEQ ID NO: 22
260 <211> LENGTH: 30
261 <212> TYPE: PRT
262 <213> ORGANISM: Macaque sp.
264 <400> SEQUENCE: 22
265 Ser Thr Ser Ile Arg Gly Lys Val Gln Lys Glu Tyr Ala Phe Phe Tyr
266   1           5           10           15
268 Lys Leu Asp Ile Cys Thr Pro Tyr Asp Ala Asn Gln Met Leu
269           20           25           30
272 <210> SEQ ID NO: 23
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274 <212> TYPE: PRT
275 <213> ORGANISM: Macaque sp.
277 <400> SEQUENCE: 23

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278 Glu Tyr Ala Phe Phe Tyr Lys Leu Asp Ile Ile Pro Ile Asp Asn Asp
279   1           5           10           15
281 Thr Thr Ser Tyr Cys Thr Pro Tyr Asp Asp Asn Gln Met Leu
282           20           25           30
285 <210> SEQ ID NO: 24
286 <211> LENGTH: 31
287 <212> TYPE: PRT
288 <213> ORGANISM: Macaque sp.
290 <400> SEQUENCE: 24
291 Arg Glu Gln Phe Gly Asn Asn Lys Thr Ile Ile Phe Lys Gln Ser Ser
292   1           5           10           15
294 Gly Gly Asp Pro Glu Cys Thr Pro Tyr Asp Lys Asn Gln Met Leu
295           20           25           30
298 <210> SEQ ID NO: 25
299 <211> LENGTH: 27
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
303 <400> SEQUENCE: 25
304 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
305   1           5           10           15
307 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe
308           20           25
311 <210> SEQ ID NO: 26
312 <211> LENGTH: 47
313 <212> TYPE: PRT
314 <213> ORGANISM: Homo sapiens
316 <400> SEQUENCE: 26
317 Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val Arg Met Tyr
318   1           5           10           15
320 Ser Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile
321           20           25           30
323 Leu Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile
324           35           40           45
327 <210> SEQ ID NO: 27
328 <211> LENGTH: 32
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo sapiens
332 <400> SEQUENCE: 27
333 Asp Arg Val Ile Glu Val Val Gln Gly Ala Tyr Arg Ala Ile Arg Val
334   1           5           10           15
336 Gly Phe Pro Val Arg Pro Gln Val Pro Leu Arg Pro Met Thr Tyr Lys
337           20           25           30
340 <210> SEQ ID NO: 28
341 <211> LENGTH: 32
342 <212> TYPE: PRT
343 <213> ORGANISM: Homo sapiens
345 <400> SEQUENCE: 28
346 Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn Trp Leu Trp Tyr Trp
347   1           5           10           15

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VERIFICATION SUMMARY

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